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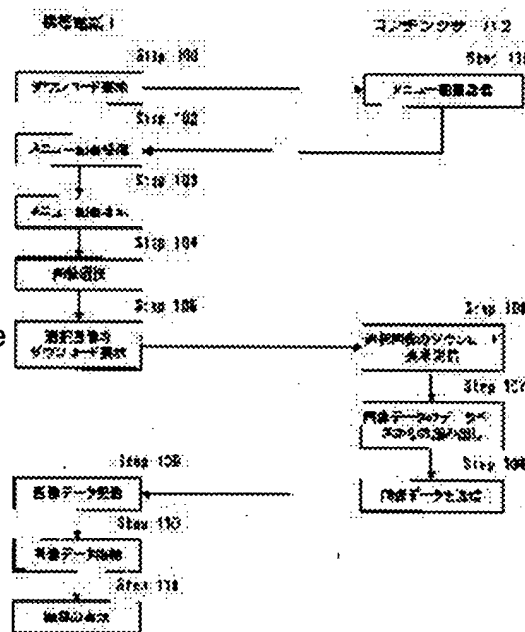
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(54) DELIVERY SYSTEM, ITS SERVER, STORAGE, PORTABLE TERMINAL SYSTEM, AND PROGRAM

(57)Abstract:

PROBLEM TO BE SOLVED: To express one character visually and/or aurally, by interlocking a character given to a portable terminal or a storage and contents related to the character downloaded from a server.

SOLUTION: This device has a portable terminal 1a which has an image display means, a means for requesting the download of an image data; and an image control means for displaying the downloaded image data a storage 1b which is given the shape of a character and stores the portable terminal; and a server which has a storage means having stored the image data of the image corresponding to the character given to the storage, and an image delivering means for delivering the image data to the portable terminal in answer to the request of download from the portable telephone. The form of the character and the image of a part of the character displayed on the display of the portable terminal are united to form one character, by displaying the image data downloaded by the storage device on the display of the portable terminal.



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CLAIMS

[Claim(s)]

[Claim 1] A display means to be a distribution system and to display an image, and a means to require download of image data, The personal digital assistant which has the image control means which displays an image on said display means based on the downloaded image data, The hold equipment which can check by looking the image displayed on the display means of said personal digital assistant where the configuration of the character was given and said personal digital assistant is contained, A storage means by which the image data of the image corresponding to a part of character given to said hold equipment was stored, Answer the demand of download of image data from a personal digital assistant, and it has the contents server which has an image distribution means to distribute image data to said personal digital assistant. By displaying on the display of said personal digital assistant the image of image data downloaded where said personal digital assistant is held in said hold equipment The distribution system characterized by the configuration of the character given to said hold equipment and the image of a part of character displayed on the display of said personal digital assistant being united, and forming the one character.

[Claim 2] A storage means by which the melody data of the melody relevant to the character in which said contents server was given to said hold equipment were stored, The demand of download of melody data is answered from a personal digital assistant, and it has further a melody data distribution means to distribute melody data to said personal digital assistant. Said personal digital assistant The distribution system according to claim 1 characterized by having further an output means to output a melody, a means to require download of melody data, and the melody control means that makes a melody output to said output means based on the downloaded melody data.

[Claim 3] The image data of two or more images corresponding to a part of character in which said contents server was given to hold equipment, A storage means by which the melody data of the melody corresponding to said each image were stored, The demand of download of each image data and the melody data corresponding to this is answered from a personal digital assistant. It has an image distribution means to distribute image data and melody data to said personal digital assistant. Said personal digital assistant A means to require download of two or more image data and the melody data corresponding to this of a server, A storage means by which said two or more downloaded image data and the melody data corresponding to this are stored corresponding to the information which shows the communication link situation of a personal digital assistant, the communication link situation of a personal digital assistant is judged, the image data of the image corresponding to this is read from said storage means, and it is made to display on a display means -- both The distribution system according to claim 1 or 2 characterized by having a means to read the melody data corresponding to the image displayed from said storage means, and to make a melody output to an output means.

[Claim 4] The distribution system according to claim 3 characterized by for a call awaiting [the communication link situation of a personal digital assistant], for said call awaiting, and the image data and melody data which are in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****, and are stored in the server corresponding to a situation, the arrival-

of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[Claim 5] It has hold equipment which is a personal digital assistant system and holds a personal digital assistant and this personal digital assistant. Said hold equipment The configuration of the character is given and the image displayed on said personal digital assistant where said personal digital assistant is contained can be checked by looking. Said personal digital assistant A display means to display an image, and a storage means by which the image data of the image corresponding to a part of character given to said hold equipment was stored, The personal digital assistant system characterized by having the image control means which displays an image on said display means based on the image data stored in said storage means.

[Claim 6] Said personal digital assistant is a personal digital assistant system according to claim 5 characterized by having further a storage means by which the melody data of the melody relevant to the character given to said hold equipment were stored, an output means to output a melody, and the melody control means that makes a melody output to said output means based on the melody data stored in said storage means.

[Claim 7] The image data of two or more images with which said personal digital assistant corresponded to a part of character given to hold equipment according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored corresponding to the information which shows a communication link situation, a communication link situation is judged, the image data of the image corresponding to this is read from said storage means, and it is made to display on a display means -- both The personal digital assistant system according to claim 5 or 6 characterized by having a means to read the melody data corresponding to the image displayed from said storage means, and to make a melody output to an output means.

[Claim 8] The personal digital assistant system according to claim 7 characterized by for a call awaiting [the communication link situation of a personal digital assistant], for said call awaiting, and the image data and melody data which are in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of ***** , and are stored in the storage means corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[Claim 9] The 1st covering with which, as for said hold equipment, the configuration by the side of a character tooth back was given, Opening or the area pellucida which can check by looking the image which the configuration by the side of the transverse plane of said character is given, and is displayed on the display of said personal digital assistant has the 2nd covering prepared at least. A distribution system or a personal digital assistant system given in either of claim 1 to claims 8 characterized by fitting in said the 1st covering and 2nd covering and containing a personal digital assistant.

[Claim 10] The distribution system according to claim 9 or personal digital assistant system characterized by preparing the hole required for actuation of a personal digital assistant in said 2nd covering.

[Claim 11] The distribution system according to claim 10 or personal digital assistant system characterized by fabricating said the 1st covering and said 2nd covering with the transparent quality of the material, and consisting of the insides of said covering possible [paint].

[Claim 12] The distribution system according to claim 11 or personal digital assistant system characterized by distinguishing by different color with inside said 1st covering or said 2nd covering, and forming the mall of business in it.

[Claim 13] A display means to be a distribution system and to display the case with which the configuration of the character was given, and an image, The personal digital assistant which has a means to require download of image data, and the image control means which displays an image on said display means based on the downloaded image data, A storage means by which the image data of the image corresponding to a part of character given to the case of said personal digital assistant was stored, Answer the demand of download of image data from a personal digital assistant, and it has the contents server which has an image distribution means to distribute image data to said personal digital assistant. By displaying the downloaded image of image data on the display of said personal digital assistant The

distribution system characterized by the configuration of the character given to the case of said personal digital assistant and the image of a part of character displayed on the display of said personal digital assistant being united, and forming the one character.

[Claim 14] A storage means by which the melody data of the melody relevant to the character in which said contents server was given to the case of said personal digital assistant were stored, The demand of download of melody data is answered from a personal digital assistant, and it has further a melody data distribution means to distribute melody data to said personal digital assistant. Said personal digital assistant The distribution system according to claim 13 characterized by having further an output means to output a melody, a means to require download of melody data, and the melody control means that makes a melody output to said output means based on the downloaded melody data.

[Claim 15] The personal digital assistant which is a personal digital assistant and is characterized by having the case with which the configuration of the character was given, a display means to display an image, a storage means by which the image data of the image corresponding to said a part of character was stored, and the image control means that displays an image on said display means based on the image data stored in said storage means.

[Claim 16] Said personal digital assistant is a personal digital assistant according to claim 15 characterized by having further a storage means by which the melody data of the melody relevant to said character were stored, an output means to output a melody, and the melody control means that makes a melody output to said output means based on the melody data stored in said storage means.

[Claim 17] The image data of two or more images with which said personal digital assistant corresponded to a part of character, A storage means by which the melody data of the melody corresponding to said each image were stored corresponding to the information which shows a communication link situation, the communication link situation of a personal digital assistant is judged, the image data of the image corresponding to this is read from said storage means, and it is made to display on a display means -- both The personal digital assistant according to claim 15 or 16 characterized by having a means to read the melody data corresponding to the image displayed from said storage means, and to make a melody output to an output means.

[Claim 18] The personal digital assistant according to claim 17 characterized by for a call awaiting [the communication link situation of a personal digital assistant], for said call awaiting, and the image data and melody data which are in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of ***** , and are stored in the storage means corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of ***** .

[Claim 19] The server characterized by having a storage means by which are the server which distributes an image and the image data of the image corresponding to a part of character given to hold equipment was stored in the personal digital assistant held in the hold equipment with which the configuration of the character was given, and an image distribution means to answer the demand of download of image data from a personal digital assistant, and to distribute image data to said personal digital assistant.

[Claim 20] Said server is a server according to claim 19 characterized by having further a storage means by which the melody data of the melody relevant to the character given to hold equipment were stored, and a melody data distribution means to distribute melody data to said personal digital assistant if there is a demand of download of melody data from a personal digital assistant.

[Claim 21] The image data of two or more images corresponding to a part of character in which said server was given to hold equipment according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, The server according to claim 19 or 20 characterized by answering the demand of download of each image data and the melody data corresponding to this from a personal digital assistant, and having further an image distribution means to distribute image data and melody data to said personal digital assistant.

[Claim 22] The server characterized by having a storage means by which are the server which distributes an image and the image data of the image corresponding to a part of character given to said personal digital assistant was stored in the personal digital assistant of the configuration of the character, and an

image distribution means to answer the demand of download of image data from a personal digital assistant, and to distribute image data to said personal digital assistant.

[Claim 23] Said server is a server according to claim 22 characterized by having further a storage means by which the melody data of the melody relevant to the character given to said personal digital assistant were stored, and a melody data distribution means to distribute melody data to said personal digital assistant if there is a demand of download of melody data from a personal digital assistant.

[Claim 24] It is the program by which answers the demand of download of image data from a storage means to by_which the image data of the image corresponding to a part of character in which it is a program for the server which distributes an image to the personal digital assistant held in the hold equipment with which the configuration of the character was given, and said server was given to said program at hold equipment was stored, and a personal digital assistant, and it is making [function as an image distribution means distribute image data to said personal digital assistant] characterized.

[Claim 25] Said program is a program according to claim 24 characterized by making it function further as a storage means by which the melody data of the melody relevant to the character to which the server was given at said hold equipment were stored, and a melody data distribution means to distribute melody data to said personal digital assistant if there is a demand of download of melody data from a personal digital assistant.

[Claim 26] The image data of two or more images corresponding to a part of character in which the server was given to said program at hold equipment according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, The program according to claim 24 or 25 characterized by answering the demand of download of each image data and the melody data corresponding to this from a personal digital assistant, and making it function on said personal digital assistant further as an image distribution means to distribute image data and melody data.

[Claim 27] It is the program characterized by being a program for the server which distributes an image to the personal digital assistant of the configuration of the character, and operating said program as a storage means by which the image data of the image corresponding to a part of character to which said server was given at said personal digital assistant was stored, and an image distribution means to answer the demand of download of image data from a personal digital assistant, and to distribute image data to said personal digital assistant.

[Claim 28] Said program is a program according to claim 27 characterized by making it function further as a storage means by which the melody data of the melody relevant to the character given to said personal digital assistant were stored, and a melody data distribution means to distribute melody data to said personal digital assistant if there is a demand of download of melody data from a personal digital assistant.

[Claim 29] The image data of two or more images corresponding to a part of character in which the server was given to said program at the personal digital assistant according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, The program according to claim 27 or 28 characterized by answering the demand of download of each image data and the melody data corresponding to this from a personal digital assistant, and making it function on said personal digital assistant further as an image distribution means to distribute image data and melody data.

[Claim 30] It is the program of the personal digital assistant which carried out the character configuration, or the personal digital assistant held in the hold equipment which carried out the character configuration. The image data of two or more images with which said program ran said personal digital assistant on a part of character according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored corresponding to the information which shows a communication link situation, Communication link situations are judged to be a display means to display an image, and an output means to output a melody. The program by which it is making [function as a means to both read the melody data corresponding to the image which reads the image data of the image corresponding to this

from said storage means, and is displayed on a display means, and which is displayed from said storage means, and to make a melody output to an output means] characterized.

[Claim 31] The program according to claim 30 characterized by for a call awaiting [the communication link situation of a personal digital assistant], for said call awaiting, and the image data and melody data which are in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of ***** , and are stored in the storage means corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[Claim 32] Hold equipment characterized by having been hold equipment with which the personal digital assistant which downloads some images of the predetermined character from a contents server, and displays the image is held, having given the configuration of the character corresponding to said image to download, and preparing at least opening or the area pellucida of a personal digital assistant which can check a display by looking.

[Claim 33] Said hold equipment is hold equipment according to claim 32 characterized by for opening or the area pellucida which can check by looking the image which the configuration by the side of the 1st covering with which the configuration by the side of a character tooth back was given, and the transverse plane of said character is given, and is displayed on the display of said personal digital assistant to have the 2nd covering prepared at least, to fit in said the 1st covering and 2nd covering, and to contain a personal digital assistant.

[Claim 34] Hold equipment according to claim 33 characterized by preparing the hole required for actuation of a personal digital assistant in said 2nd covering.

[Claim 35] Hold equipment according to claim 34 characterized by fabricating said the 1st covering and said 2nd covering with the transparent quality of the material, and consisting of the insides of said covering possible [paint].

[Claim 36] Hold equipment according to claim 35 characterized by distinguishing by different color with inside said 1st covering or said 2nd covering, and forming the mall of business in it.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] Especially this invention relates to the distribution system by which the hold equipment which holds a personal digital assistant, and the contents downloaded to a personal digital assistant interlocked, the server and hold equipment which are used for it, or a personal digital assistant system, and a program about a distribution system.

[0002]

[Description of the Prior Art] As for service of a cellular phone in recent years, contents, for example, the service which awaits and distributes a screen, a melody signaling an incoming call, a game, etc. to a cellular phone, are briskly performed not only from mere message service but from the contents server like the telephone of the conventional installation mold so that it may be represented by the I mode in recent years.

[0003] On the other hand, giving originality to the cellular phone itself according to an individual idea as it is as holding a cellular phone in the hold equipment (for example, case) with which it was given to the ornament **** [and] is also performed. [painting a cellular phone]

[0004]

[Problem(s) to be Solved by the Invention] However, the contents downloaded from the contents server and the appearance of a cellular phone interlocked, and there was no technique which can be enjoyed visually or in acoustic sense.

[0005] Then, this invention is invented in view of the above-mentioned trouble, download or the contents pre-installed beforehand interlocks from the appearance and contents server of a personal digital assistant, and the purpose is in offering the technique which can be enjoyed as one contents.

[0006] Moreover, the purpose of this invention interlocks download or the contents relevant to the character pre-installed beforehand from the character given to the hold equipment which holds a personal digital assistant or this, and a server, and is about the one character to offer [visual and]/and the technique expressed in acoustic sense.

[0007]

[Means for Solving the Problem] A display means for the 1st invention which attains the above-mentioned purpose to be a distribution system, and to display an image, The personal digital assistant which has a means to require download of image data, and the image control means which displays an image on said display means based on the downloaded image data, The hold equipment which can check by looking the image displayed on the display means of said personal digital assistant where the configuration of the character was given and said personal digital assistant is contained, A storage means by which the image data of the image corresponding to a part of character given to said hold equipment was stored, Answer the demand of download of image data from a personal digital assistant, and it has the contents server which has an image distribution means to distribute image data to said personal digital assistant. By displaying on the display of said personal digital assistant the image of image data downloaded where said personal digital assistant is held in said hold equipment It is characterized by the

configuration of the character given to said hold equipment and the image of a part of character displayed on the display of said personal digital assistant being united, and forming the one character. [0008] The 2nd invention which attains the above-mentioned purpose is set to the 1st above-mentioned invention. Said contents server A storage means by which the melody data of the melody relevant to the character given to said hold equipment were stored, The demand of download of melody data is answered from a personal digital assistant, and it has further a melody data distribution means to distribute melody data to said personal digital assistant. Said personal digital assistant It is characterized by having further an output means to output a melody, a means to require download of melody data, and the melody control means that makes a melody output to said output means based on the downloaded melody data.

[0009] The 3rd invention which attains the above-mentioned purpose is set to the 1st or 2nd above-mentioned invention. Said contents server The image data of two or more images corresponding to a part of character given to hold equipment, A storage means by which the melody data of the melody corresponding to said each image were stored, The demand of download of each image data and the melody data corresponding to this is answered from a personal digital assistant. It has an image distribution means to distribute image data and melody data to said personal digital assistant. Said personal digital assistant A means to require download of two or more image data and the melody data corresponding to this of a server, A storage means by which said two or more downloaded image data and the melody data corresponding to this are stored corresponding to the information which shows the communication link situation of a personal digital assistant, the communication link situation of a personal digital assistant is judged, the image data of the image corresponding to this is read from said storage means, and it is made to display on a display means -- both It is characterized by having a means to read the melody data corresponding to the image displayed from said storage means, and to make a melody output to an output means.

[0010] The image data and melody data with which a call awaits [the communication link situation of a personal digital assistant] the 4th invention which attains the above-mentioned purpose in the 3rd above-mentioned invention, it is in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****, and is stored in the server are characterized by for said call awaiting and corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[0011] It has hold equipment which the 5th invention which attains the above-mentioned purpose is a personal digital assistant system, and holds a personal digital assistant and this personal digital assistant. Said hold equipment The configuration of the character is given and the image displayed on said personal digital assistant where said personal digital assistant is contained can be checked by looking. Said personal digital assistant It is characterized by having a display means to display an image, a storage means by which the image data of the image corresponding to a part of character given to said hold equipment was stored, and the image control means that displays an image on said display means based on the image data stored in said storage means.

[0012] It is characterized by for the 6th invention which attains the above-mentioned purpose to have further a storage means to by which the melody data of the melody relevant to the character in which said personal digital assistant was given to said hold equipment were stored in the 5th above-mentioned invention, an output means output a melody, and the melody control means that make a melody output to said output means based on the melody data stored in said storage means.

[0013] The 7th invention which attains the above-mentioned purpose is set to the 5th or 6th above-mentioned invention. Said personal digital assistant The image data of two or more images which corresponded to a part of character given to hold equipment according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored corresponding to the information which shows a communication link situation, It is characterized by having a means to both read the melody data corresponding to the image which judges a communication link situation, reads the image data of the image corresponding to this from said storage means, and is displayed on a display means and which is

displayed from said storage means, and to make a melody output to an output means.

[0014] The image data and melody data with which a call awaits [the communication link situation of a personal digital assistant] the 8th invention which attains the above-mentioned purpose in the 7th above-mentioned invention, it is in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****, and is stored in the storage means are characterized by for said call awaiting and corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[0015] The 9th invention which attains the above-mentioned purpose is set from the above 1st to the 8th one of invention. Said hold equipment The configuration by the side of the 1st covering with which the configuration by the side of a character tooth back was given, and the transverse plane of said character is given. And it is characterized by for opening or the area pellucida which can check by looking the image displayed on the display of said personal digital assistant having the 2nd covering prepared at least, fitting in said the 1st covering and 2nd covering, and containing a personal digital assistant.

[0016] 10th invention which attains the above-mentioned purpose is characterized by preparing the hole required for actuation of a personal digital assistant in said 2nd covering in the 9th above-mentioned invention.

[0017] In the 10th above-mentioned invention, said the 1st covering and said 2nd covering are fabricated with the transparent quality of the material, and 11th invention which attains the above-mentioned purpose is characterized by consisting of the insides of said covering possible [paint].

[0018] 12th invention which attains the above-mentioned purpose is characterized by distinguishing by different color with inside said 1st covering or said 2nd covering, and forming the mall of business in it in the 11th above-mentioned invention.

[0019] The case with which the 13th invention which attains the above-mentioned purpose is a distribution system, and the configuration of the character was given, A display means to display an image, and a means to require download of image data, The personal digital assistant which has the image control means which displays an image on said display means based on the downloaded image data, A storage means by which the image data of the image corresponding to a part of character given to the case of said personal digital assistant was stored, Answer the demand of download of image data from a personal digital assistant, and it has the contents server which has an image distribution means to distribute image data to said personal digital assistant. By displaying the downloaded image of image data on the display of said personal digital assistant It is characterized by the configuration of the character given to the case of said personal digital assistant and the image of a part of character displayed on the display of said personal digital assistant being united, and forming the one character.

[0020] The 14th invention which attains the above-mentioned purpose is set to the 13th above-mentioned invention. Said contents server A storage means by which the melody data of the melody relevant to the character given to the case of said personal digital assistant were stored, The demand of download of melody data is answered from a personal digital assistant, and it has further a melody data distribution means to distribute melody data to said personal digital assistant. Said personal digital assistant It is characterized by having further an output means to output a melody, a means to require download of melody data, and the melody control means that makes a melody output to said output means based on the downloaded melody data.

[0021] The 15th invention which attains the above-mentioned purpose is a personal digital assistant, and is characterized by to have the case with which the configuration of the character was given, a display means display an image, a storage means to by_ which the image data of the image corresponding to said a part of character was stored, and the image control means that displays an image on said display means based on the image data stored in said storage means.

[0022] It is characterized by for the 16th invention which attains the above-mentioned purpose to have further a storage means to by_ which the melody data of the melody relevant to said character in said personal digital assistant were stored, an output means output a melody, and the melody control means that makes a melody output to said output means based on the melody data with which it is stored in said storage means in the 15th above-mentioned invention.

[0023] The 17th invention which attains the above-mentioned purpose is set to the 15th or 16th above-mentioned invention. Said personal digital assistant A storage means by which the image data of two or more images corresponding to a part of character and the melody data of the melody corresponding to said each image were stored corresponding to the information which shows a communication link situation, the communication link situation of a personal digital assistant is judged, the image data of the image corresponding to this is read from said storage means, and it is made to display on a display means -- both It is characterized by having a means to read the melody data corresponding to the image displayed from said storage means, and to make a melody output to an output means.

[0024] The image data and melody data with which a call awaits [the communication link situation of a personal digital assistant] the 18th invention which attains the above-mentioned purpose in the 17th above-mentioned invention, it is in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****, and is stored in the storage means are characterized by for said call awaiting and corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[0025] The 19th invention which attains the above-mentioned purpose is characterized by to have a storage means to by_ which are the server which distributes an image and the image data of the image corresponding to a part of character given to hold equipment was stored in the personal digital assistant held in the hold equipment with which the configuration of the character was given, and an image distribution means answers the demand of download of image data from a personal digital assistant, and distribute image data to said personal digital assistant.

[0026] 20th invention which attains the above-mentioned purpose is characterized by having further a storage means by which the melody data of the melody relevant to the character in which said server was given to hold equipment were stored, and a melody data distribution means to distribute melody data to said personal digital assistant if there is a demand of download of melody data from a personal digital assistant in the 19th above-mentioned invention.

[0027] The 21st invention which attains the above-mentioned purpose is set to the 19th or 20th above-mentioned invention. Said server The image data of two or more images which corresponded to a part of character given to hold equipment according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, It is characterized by answering the demand of download of each image data and the melody data corresponding to this from a personal digital assistant, and having further an image distribution means to distribute image data and melody data to said personal digital assistant.

[0028] 22nd invention which attains the above-mentioned purpose is characterized by having a storage means by which are the server which distributes an image and the image data of the image corresponding to a part of character given to said personal digital assistant was stored in the personal digital assistant of the configuration of the character, and an image distribution means to answer the demand of download of image data from a personal digital assistant, and to distribute image data to said personal digital assistant.

[0029] 23rd invention which attains the above-mentioned purpose is characterized by having further a storage means by which the melody data of the melody relevant to the character in which said server was given to said personal digital assistant were stored, and a melody data distribution means to distribute melody data to said personal digital assistant if there is a demand of download of melody data from a personal digital assistant in the 22nd above-mentioned invention.

[0030] The 24th invention which attains the above-mentioned purpose to the personal digital assistant held in the hold equipment with which the configuration of the character was given A storage means by which are a program for the server which distributes an image and the image data of the image corresponding to a part of character in which said server was given to said program at hold equipment was stored, The demand of download of image data is answered from a personal digital assistant, and it considers as the making [function on said personal digital assistant as an image distribution means to distribute image data] description.

[0031] In the 24th above-mentioned invention, 25th invention which attains the above-mentioned

purpose will be characterized by to operate melody data further as a melody data distribution means to distribute at said personal digital assistant, if said program has the demand of download of melody data from a storage means by which the melody data of the melody relevant to the character to which the server was given at said hold equipment were stored, and a personal digital assistant.

[0032] The 26th invention which attains the above-mentioned purpose is set to the 24th or 25th above-mentioned invention. Said program The image data of two or more images corresponding to a part of character to which the server was given at hold equipment according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, It is characterized by answering the demand of download of each image data and the melody data corresponding to this from a personal digital assistant, and making it function on said personal digital assistant further as an image distribution means to distribute image data and melody data.

[0033] The 27th invention which attains the above-mentioned purpose is a program for the server which distributes an image to the personal digital assistant of the configuration of the character, and it is characterized by to operate said program as a storage means to by_ which the image data of the image corresponding to a part of character to which said server was given at said personal digital assistant was stored, and an image distribution means answer the demand of download of image data from a personal digital assistant, and distribute image data to said personal digital assistant.

[0034] It is characterized by making it function further as a melody data distribution means by which the 28th invention which attains the above-mentioned purpose will distribute melody data to said personal digital assistant if said program has the demand of download of melody data in the 27th above-mentioned invention from a storage means by which the melody data of the melody relevant to the character given to said personal digital assistant were stored, and a personal digital assistant.

[0035] The 29th invention which attains the above-mentioned purpose is set to the 27th or 28th above-mentioned invention. Said program The image data of two or more images corresponding to a part of character to which the server was given at the personal digital assistant according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, It is characterized by answering the demand of download of each image data and the melody data corresponding to this from a personal digital assistant, and making it function on said personal digital assistant further as an image distribution means to distribute image data and melody data.

[0036] The personal digital assistant which carried out the character configuration of the 30th invention which attains the above-mentioned purpose, Or the image data of two or more images with which it is the program of the personal digital assistant held in the hold equipment which carried out the character configuration, and said program ran said personal digital assistant on said a part of character according to the communication link situation of a personal digital assistant, A storage means by which the melody data of the melody corresponding to said each image were stored, Communication link situations are judged to be a display means to display an image, and an output means to output a melody. It considers as the making [function as a means to both read the melody data corresponding to the image which reads the image data of the image corresponding to this from said storage means, and is displayed on a display means and which is displayed from said storage means, and to make a melody output to an output means] description.

[0037] The image data and melody data with which a call awaits [the communication link situation of a personal digital assistant] the 31st invention which attains the above-mentioned purpose in the 30th above-mentioned invention, it is in a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****, and is stored in the storage means are characterized by for said call awaiting and corresponding to a situation, the arrival-of-the-mail situation of a call, and the arrival-of-the-mail situation of *****.

[0038] Some images of the predetermined character are downloaded from a contents server, it is hold equipment with which the personal digital assistant which displays the image is held, the configuration of the character corresponding to said image to download is given, and 32nd invention which attains the

above-mentioned purpose is characterized by preparing at least opening or the area pellucida of a personal digital assistant which can check a display by looking.

[0039] The 33rd invention which attains the above-mentioned purpose is set to the 32nd above-mentioned invention. Said hold equipment The configuration by the side of the 1st covering with which the configuration by the side of a character tooth back was given, and the transverse plane of said character is given. And it is characterized by for opening or the area pellucida which can check by looking the image displayed on the display of said personal digital assistant having the 2nd covering prepared at least, fitting in said the 1st covering and 2nd covering, and containing a personal digital assistant.

[0040] 34th invention which attains the above-mentioned purpose is characterized by preparing the hole required for actuation of a personal digital assistant in said 2nd covering in the 33rd above-mentioned invention.

[0041] In the 34th above-mentioned invention, said the 1st covering and said 2nd covering are fabricated with the transparent quality of the material, and 35th invention which attains the above-mentioned purpose is characterized by consisting of the insides of said covering possible [paint].

[0042] 36th invention which attains the above-mentioned purpose is characterized by distinguishing by different color with inside said 1st covering or said 2nd covering, and forming the mall of business in it in the 35th invention of the above.

[0043]

[Embodiment of the Invention] The gestalt of operation of the 1st of this invention is explained. In addition, although a typical cellular phone is made into an example and the gestalt of this operation explains it as an example of a personal digital assistant, this invention may be a personal digital assistant like PDA, for example, without being limited to a cellular phone.

[0044] Drawing 1 is the conceptual diagram of the gestalt of the 1st operation.

[0045] One is a cellular phone among drawing 1, the contents server which 2 provides with contents, and 3 are gateway servers, 4 is a base station, 5 is a point-to-point-communication network by the side of the gateway server 3, 6 is a communication network (Internet) which connects the gateway server 3 and the contents server 2, and 7 is a mobile communication network.

[0046] Next, a cellular phone 1 and the contents server 2 are explained to a detail. In addition, since the gateway server 3, a base station 4, the point-to-point-communication network 5, a communication network 6, and the mobile communication network 7 are known techniques, they omit detailed explanation.

[0047] A cellular phone 1 is explained.

[0048] A cellular phone 1 consists of body of cellular phone 1a, and hold equipment 1b (cellular-phone covering) which holds body of cellular phone 1a, as shown in drawing 2.

[0049] First, body of cellular phone 1a is explained.

[0050] Drawing 3 is the block diagram of body of cellular phone 1a.

[0051] 11 are the transceiver section for transmitting and receiving data among drawing 3.

[0052] 12 is the storage section data are remembered to be.

[0053] 13 is a download control section. This download control section 13 performs processing to the storing processing to the image data storage section 12 which downloaded download of image data from the demand etc. to the contents server 2.

[0054] 14 is a display on which an image is displayed.

[0055] 15 is an image control section. This image control section 15 reads the image data stored in the storage section 12, and displays an image on a display 11 based on the read data.

[0056] 16 is control units, such as a ten key.

[0057] Next, hold equipment 1b (cellular-phone covering) is explained.

[0058] Drawing 4 is drawing for explaining hold equipment 1b.

[0059] If hold equipment 1b consists of the 1st covering 20 and 2nd covering 21 and the configuration is explained, since some images of the character will be displayed to mention later on the display 11 of body of cellular phone 1a In the configuration of the character given to an image, and the 1st covering

20 and 2nd covering 21 of the character displayed on a display 11, the configuration of the character is given to the 1st covering 20 and 2nd covering 21 so that the one character can be expressed. For example, if the image displayed on a display 11 is an image of the part of the face of a certain character, as for the configuration of hold equipment 1b, the configuration of parts other than the face of the character will be given.

[0060] The configuration by the side of the transverse plane of a certain character (for example, dog) is formed, and, as for the 1st covering 20, the opening 22 which can check an antenna hole, a hole required for the transmission-and-reception talk, and a display 11 by looking to the 1st covering 20 further is formed. In addition, although considered as opening with the gestalt of this operation like the ability of the image displayed on a display 11 to be checked by looking, the check by looking of the location corresponding to a display 11 may be enabled transparence, without being limited to this. As for the 2nd covering 21, the configuration by the side of the tooth back of said character (for example, dog) is formed. And as shown in drawing 5, the heights 24 of the 2nd covering 21 are fitted in the crevice 23 of the 1st covering 20, the whole body of cellular phone 1a is held and covered, and the one character is constituted where the 1st covering 20 and 2nd covering 21 are fitted in.

[0061] The good product made from plastics of coloring nature and an electrical property of the 1st covering 20 and the 2nd covering 21 is desirable, for example, transparence ABS plastics etc. can be considered.

[0062] The 1st covering 20 and 2nd covering 21 are fabricated with the gestalt of this operation with transparence ABS plastics, and they consist of them so that a user can color by the favorite color. As for paint, the 1st covering 20 and 2nd covering 21 are painted from the inside for protection of a painted surface. Moreover, a mall 25 is formed in the painted surface side (inside) of the 1st covering 20 and the 2nd covering 21, and a user distinguishes by different color with simply and finely and can paint now.

[0063] Like the above, the cellular phone 1 which carried out the character configuration in which it was painted is constituted by fitting in the 1st covering 20 and 2nd covering 21 which were painted, where body of cellular phone 1a is put.

[0064] Next, the contents server 2 is explained.

[0065] Drawing 6 is the block diagram of the contents server 2.

[0066] 30 are the transceiver section which transmits and receives data among drawing 6.

[0067] 31 is the image database with which the image data of the image displayed with a cellular phone 1 was stored. The image of the image data stored in this image database 31 is an image relevant to the character currently used with the cellular phone 1, and as shown in drawing 7, it is the face (a smiling face and tearful face) of the character, or some of its images.

[0068] it is shown in an image database 31 at drawing 8 -- as -- every character and "dog -- " -- a folder is prepared for every group a "cat" and the image data of images, such as a smiling face and a tearful face, is stored in each folder as an image relevant to the character.

[0069] 32 is the image distribution section. This image distribution section 32 reads the image data of the image which answered the demand of the image download from a cellular phone 1, was made to choose the image corresponding to the character which transmits a menu screen and he wishes from a menu screen, and was chosen from an image database 31, and distributes an image to a cellular phone 1.

[0070] Next, actuation of the gestalt of this operation is explained.

[0071] Drawing 9 is an operation flow chart explaining actuation of the gestalt of this operation.

[0072] First, the download control section 13 of a cellular phone 1 gives the download demand of an image to the contents server 2 through the gate server 3 (Step 100).

[0073] In the contents server 2 which received the download demand, the image distribution section 32 transmits a menu screen to the cellular phone 1 which required download (Step 101).

[0074] In a cellular phone 1, a menu screen is received (Step 102) and a menu screen is displayed on a display 14 (Step 103). The user of a cellular phone 1 chooses the image corresponding to the character of hold equipment 1b (cellular-phone covering) which he holds among the images in which the current download displayed on the menu screen is possible (Step 104), and performs the download demand of the selected image (Step 105).

[0075] for example, the image in which the present download is possible in the menu screen shown in drawing 10 -- "smiling face of the character "a dog" -- " -- an image and "tearful face of the character "a dog" -- " -- an image and "smiling face of the character "a cat" -- " -- an image and "tearful face of the character "a cat" -- " -- it is an image. And the character of hold equipment 1b which the user of a cellular phone 1 holds is a "dog." then, a user -- "smiling face of the character "a dog" -- " -- supposing it chooses an image -- the download control section 13 of a personal digital assistant 1 -- the gate server 3 -- minding -- "smiling face of the character "a dog" -- " -- the download demand of an image is given to the contents server 2.

[0076] The contents server 2 which received the download demand of an image receives a demand (Step 106), and reads the image data of the demanded image from an image database 31 (Step 107). And the read image data is transmitted to a cellular phone 1 (Step 108).

[0077] for example, the demand from a cellular phone 1 -- "laughter face of the character "a dog" -- " -- the case where it is the download demand of an image -- "laughter face of an image database 31 to the character "a dog" -- " -- image data is read and it is transmitted to a cellular phone 1.

[0078] In a cellular phone 1, the downloaded image is received (Step 109) and it stores in the storage section 13 (Step 110). And it is read by the image control section 15, is displayed on a display 14, awaits, and is used for a screen etc. (Step 111).

[0079] "smiling face of the character "a dog" which body of cellular phone 1a was held in hold equipment 1b, and drawing 11 downloaded -- " -- the condition that the image was displayed on the display 14 is shown.

[0080] "smiling face of the character "a dog" downloaded so that he could understand easily also from drawing 11 -- " -- it turns out that an image and the configuration given to hold equipment 1b are united, and the character (for example, dog) is expressed.

[0081] moreover -- an above-mentioned example -- "smiling face -- " -- although the image is expressed as the display 14 -- "tearful face of the character -- " -- if an image is downloaded and it displays on a display 14, as shown in drawing 12, the character of a different tearful face from the character of a smiling face can be expressed.

[0082] Thus, in this invention, the configuration given to hold equipment 1b and the downloaded image are united, the one character can be expressed, and if the image displayed on the display of the body of a cellular phone is changed, the character in the condition of differing can be expressed.

[0083] In addition, although hold equipment 1b was made into the transparent quality of the material in the above-mentioned example so that a user could paint freely according to liking, it may be formed by that to which coloring was performed beforehand, for example, multi-color molding. The quality of the material of hold equipment 1b is also moreover, not only like ABS plastics but like PVC.

[0084] Moreover, not using hold equipment 1b, the configuration of the body of a cellular phone may be formed like the character.

[0085] Furthermore, the image to download may also be an image of a hand or a guide peg not only depending on the image equivalent to the face of the character but depending on the character.

Moreover, you may be the animation with which an image also changes not only from a still picture but from a smiling face to a tearful face.

[0086] The gestalt of the 2nd operation is explained.

[0087] In addition to the gestalt of the 1st operation, the gestalt of the 2nd operation stores in the contents server 2 the melody signaling an incoming call (ringer tone) relevant to the character of receipt equipment 1b mentioned above. And it is characterized by expressing the description of the character further by downloading a melody signaling an incoming call 1 to a cellular phone 1, and using for a ringer tone etc.

[0088] In order to attain the above-mentioned function, as shown in drawing 13, the ringer tone database 50 and the ringer tone distribution section 51 which distributes a ringer tone are formed in the contents server 2.

[0089] Moreover, as shown in drawing 14, the function which downloads the data of a ringer tone to the download control section 13 of body of cellular phone 1a from the contents server 2, and is stored in it at

the storage section 12 is added. Furthermore, the data of the loudspeaker 60 which outputs a ringer tone to body of cellular phone 1a, and the ringer tone stored in the storage section 12 at the time of arrival of the mail are read, and the ringer tone control section 51 which makes a ringer tone output to a loudspeaker 50 is formed.

[0090] Next, the actuation in an above-mentioned configuration is explained.

[0091] Drawing 15 is a flow chart which shows actuation of the gestalt of the 2nd operation.

[0092] First, the download control section 13 of a personal digital assistant 1 gives the download demand of a ringer tone to the contents server 2 through the gate server 3 (Step 200).

[0093] In the contents server 2 which received the download demand, the ringer tone distribution section 51 transmits a menu screen to the cellular phone 1 which required download (Step 201).

[0094] In a cellular phone 1, a menu screen is received (Step 202) and a menu screen is displayed on a display 14 (Step 203). The user of a cellular phone 1 chooses the ringer tone corresponding to the character of hold equipment 1b (cellular-phone covering) which he holds among the ringer tones in which the current download displayed on the menu screen is possible (Step 204), and performs the download demand of the selected ringer tone (Step 205).

[0095] for example, the ringer tone in which the present download is possible in the menu screen shown in drawing 16 -- "cry of the character "a dog" -- " -- a ringer tone and "cry of the character "a cat" -- " -- it is with a ringer tone. and the case where the character of hold equipment 1b which the user of a cellular phone 1 holds is a "dog" -- a user -- "cry of the character "a dog" -- " -- a ringer tone is chosen. then, the download control section 13 of a cellular phone 1 -- the gate server 3 -- minding -- "cry of the character "a dog" -- " -- the download demand of the data of a ringer tone is transmitted to the contents server 2.

[0096] The contents server 2 which received the download demand of a ringer tone receives a demand (Step 206), and reads the data of the demanded ringer tone from the ringer tone database 50 (Step 107). And the read data are transmitted to a cellular phone 1 (Step 208).

[0097] for example, the demand from a cellular phone 1 -- "cry of the character "a dog" -- " -- the case where it is a download demand -- "cry of the ringer tone database 50 to the character "a dog" -- " -- data are read and it is transmitted to a cellular phone 1.

[0098] In a cellular phone 1, the downloaded data of a ringer tone are received (Step 209) and the data of a ringer tone are stored in the storage section 13 (Step 210).

[0099] And it judges whether the ringer tone control section 51 has the time of the arrival of the call from other cellular phones etc. (Step 211), and when there is arrival of the mail, (Step 212) and the ringer tone control section 51 read the data of a melody signaling an incoming call from the storage section 13. And based on the data of the read melody signaling an incoming call, a melody signaling an incoming call is outputted from a loudspeaker 50 (Step 213).

[0100] Since the ringer tone relevant to the character is outputted as a ringer tone when according to the gestalt of the 2nd operation of the above the face of the character or some images are awaited and there is arrival of the mail as a screen at the time of a display Since the acoustic-sense-effectiveness of a ringer tone can be acquired in addition to the visual effectiveness by the image currently displayed as the configuration of the character given to receipt equipment 1b, the character can be expressed more to a real tee.

[0101] For example, if it is outputted with "one and one" as a ringer tone when there is arrival of the mail in the condition that the body of a cellular phone is held in the hold equipment with which the configuration of a dog was given, and await, and the smiling face of a dog is displayed on the screen as the gestalt of the 1st operation explained, the character called a dog can be expressed more.

[0102] The gestalt of the 3rd operation is explained.

[0103] The data of two or more images and the melody corresponding to this are prepared for the contents server 2, and a cellular phone 1 is made to download them with the gestalt of the 3rd operation. And in a cellular phone 1, each image and melody which were downloaded, and the communication link situation of a cellular phone, for example, a call, await, the condition and a different communication link situation of the time of the arrival of a call or e-mail arrival are made to match and memorize, and it is

characterized by changing those images and melodies according to a communication link situation, and displaying and outputting them. Hereafter, the gestalt of concrete operation is explained. In addition, explanation is omitted about the same thing as the gestalt of operation mentioned above.

[0104] Drawing 17 is the block diagram of the contents server 2.

[0105] 61 are the image and melody database with which the image displayed and outputted with a cellular phone 1 and the data of a melody were stored among drawing 17. this -- an image - a melody -- a database -- 61 -- storing -- having -- **** -- data -- a cellular phone -- one -- using it -- having -- **** -- the character -- being related -- an image - a melody -- it is -- a cellular phone -- one -- a communication link -- a situation -- here -- **** -- a call -- awaiting -- the time -- a call -- arrival of the mail -- the time -- and -- an electronic mail -- arrival of the mail -- the time -- using it -- having -- an image - a melody -- data -- storing -- having -- ****. The example of the data of the image and melody stored in the image and the melody database 61 is shown in drawing 18. According to drawing 18, the character image "a smiling face", the group of a melody "one and one", a character image "a tearful face" and the group of a melody "a can and a can", and a character image "*****" and the group of a melody "UTSU and UTSU" are stored.

[0106] 62 is an image and the melody distribution section. This image and melody distribution section 62 answer the demand of download of the image and melody from a cellular phone 1, and transmits the data of two or more image and melodies mentioned above to a cellular phone 1.

[0107] Next, body of cellular phone 1a is explained.

[0108] Drawing 19 is the block diagram of body of cellular phone 1a.

[0109] 70 are a communication link situation seal step among drawing 19. A call awaits this communication link situation seal step 70, and it distinguishes the time and the time of the arrival of a call, and the arrival of an electronic mail the communication link situation of a current cellular phone, and here.

[0110] 71 is the data storage section. This data storage section 71 makes the downloaded data correspond to a communication link situation, and stores them in the storage section 12. Although it is the storing approach, by a user's selection, a call awaits, sometimes, a communication link situation, and an image and melody data are matched like the group of a character image "*****" and a melody "UTSU and UTSU" at the time of a character image "a smiling face", the group of a melody "one and one", and the arrival of an electronic mail at the time of a character image "a tearful face", the group of a melody "a can and a can", and the arrival of a call, and it stores in the storage means 12.

[0111] 72 is a display and the output-control section. This display and output-control section 72 make a melody output from a loudspeaker 60 while it reads the image and melody data corresponding to this situation from the division 100 million section 12 and displays an image on a display 14 in response to the communication link situation from the communication link situation seal step 70. However, it awaits and considers only as the display of an image at the time.

[0112] Then, the actuation in an above-mentioned configuration is explained. In addition, since download of the image and melody data from the contents server 2 is the same as that of the gestalt of operation mentioned above, it omits explanation.

[0113] Drawing 20 is the flow chart of the actuation in a cellular phone 1.

[0114] First, matching with the image and melody data which the cellular phone 1 received an image and melody data from the contents server 2 (Step 300), and were received by the data storage section 71, and a communication link situation is performed (Step 301). And the information on a communication link situation, and an image and melody data are matched, and it is stored in the storage section 12 (Step 302).

[0115] Here, the time of the arrival of an electronic mail, and a character image "*****" and the group of a melody "UTSU and UTSU" should be matched for the time, and a character image "a tearful face" and the group of a melody "a can and a can" by a call awaiting, and the time of the arrival of a call, and a character image "a smiling face" and the group of a melody "one and one" should be stored in the storage means 12.

[0116] Then, the communication link situation seal step 70 judges the current communication link

situation of a cellular phone 1, and outputs a communication link situation to a display and the output-control section 72 (Step 303).

[0117] A display and the output-control section 72 read the image and melody data corresponding to a communication link situation from the storage section 12 (Step 304), outputs them to a display 14 and a loudspeaker 60, displays an image and outputs a melody (Step 305).

[0118] If it explains concretely, as a call awaits and it is sometimes shown at drawing 21, the image of a "tearful face" will be displayed on a display 14. And while the image of a display 14 will be changed to a "smiling face" as shown in drawing 22 if a call receives a message, a melody "one and one" is outputted from a loudspeaker 60. Moreover, as shown in drawing 23, while the image of "*****" is displayed on a display 14 by the arrival of an electronic mail, a melody "UTSU and UTSU" is outputted to it from a loudspeaker 60.

[0119] Thus, according to a communication link situation, an image and a melody can change and vision and acoustic-sense-change can be further enjoyed with the character of hold equipment.

[0120] In addition, the contents server 2 may be operated by the program to which the actuation stated with the gestalt of the 1st operation, the gestalt of the 2nd operation, and the gestalt of the 3rd operation and the same actuation are made to carry out to information processors, such as a computer.

[0121] Moreover, although the image or the melody was downloaded and obtained from the contents server with the gestalt of the 1st operation, the gestalt of the 2nd operation, and the gestalt of the 3rd operation, even if it makes the body of a cellular phone memorize beforehand (for example, pre-installation), the same effectiveness is acquired by the cellular-phone side.

[0122]

[Effect of the Invention] By making into a character configuration the hold equipment which holds a personal digital assistant, and displaying the image relevant to the character which is in the condition which held the personal digital assistant in the hold equipment, and was downloaded from the server on a personal digital assistant, the configuration of the character given to hold equipment and the downloaded image are united, and this invention can express the one character.

[0123] Moreover, two or more images to display are prepared, and if the image displayed on the display of the body of a cellular phone is changed, the character in the condition of differing can be expressed.

[0124] Moreover, download of a ringer tone is similarly enabled from a server, and since the acoustic-sense-effectiveness of a ringer tone can be acquired in addition to the visual effectiveness by the image currently displayed as the configuration of the character given to receipt equipment since the downloaded ringer tone is outputted at the time of the display of the image relevant to the character, the character can be expressed more to a real tee.

[0125] Furthermore, if two or more image and melodies are prepared and it is made for an image and a melody to make it change with the communication link situations of a personal digital assistant, vision and acoustic-sense-change can be further enjoyed with the character given to hold equipment or a personal digital assistant.

[Translation done.]

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TECHNICAL FIELD

[The technical field to which invention belongs] Especially this invention relates to the distribution system by which the hold equipment which holds a personal digital assistant, and the contents downloaded to a personal digital assistant interlocked, the server and hold equipment which are used for it, or a personal digital assistant system, and a program about a distribution system.

[Translation done.]

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PRIOR ART

[Description of the Prior Art] As for service of a cellular phone in recent years, contents, for example, the service which awaits and distributes a screen, a melody signaling an incoming call, a game, etc. to a cellular phone, are briskly performed not only from mere message service but from the contents server like the telephone of the conventional installation mold so that it may be represented by the I mode in recent years.

[0003] On the other hand, giving originality to the cellular phone itself according to an individual idea as it is as holding a cellular phone in the hold equipment (for example, case) with which it was given to the ornament **** [and] is also performed. [painting a cellular phone]

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EFFECT OF THE INVENTION

[Effect of the Invention] By making into a character configuration the hold equipment which holds a personal digital assistant, and displaying the image relevant to the character which is in the condition which held the personal digital assistant in the hold equipment, and was downloaded from the server on a personal digital assistant, the configuration of the character given to hold equipment and the downloaded image are united, and this invention can express the one character.

[0123] Moreover, two or more images to display are prepared, and if the image displayed on the display of the body of a cellular phone is changed, the character in the condition of differing can be expressed.

[0124] Moreover, download of a ringer tone is similarly enabled from a server, and since the acoustic-sense-effectiveness of a ringer tone can be acquired in addition to the visual effectiveness by the image currently displayed as the configuration of the character given to receipt equipment since the downloaded ringer tone is outputted at the time of the display of the image relevant to the character, the character can be expressed more to a real tee.

[0125] Furthermore, if two or more image and melodies are prepared and it is made for an image and a melody to make it change with the communication link situations of a personal digital assistant, vision and acoustic-sense-change can be further enjoyed with the character given to hold equipment or a personal digital assistant.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] However, the contents downloaded from the contents server and the appearance of a cellular phone interlocked, and there was no technique which can be enjoyed visually or in acoustic sense.

[0005] Then, this invention is invented in view of the above-mentioned trouble, download or the contents pre-installed beforehand interlocks from the appearance and contents server of a personal digital assistant, and the purpose is in offering the technique which can be enjoyed as one contents.

[0006] Moreover, the purpose of this invention interlocks download or the contents relevant to the character pre-installed beforehand from the character given to the hold equipment which holds a personal digital assistant or this, and a server, and is about the one character to offer [visual and]/and the technique expressed in acoustic sense.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] Drawing 1 is the conceptual diagram of the gestalt of operation of this invention.

[Drawing 2] Drawing 2 is drawing for explaining a cellular phone 1.

[Drawing 3] Drawing 3 is the block diagram of body of cellular phone 1a.

[Drawing 4] Drawing 4 is drawing for explaining hold equipment 1b.

[Drawing 5] Drawing 5 is drawing for explaining hold equipment 1b.

[Drawing 6] Drawing 6 is the block diagram of the contents server 2.

[Drawing 7] Drawing 7 is drawing showing an example of the image stored.

[Drawing 8] Drawing 8 is drawing for explaining an image database 31.

[Drawing 9] Drawing 9 is an operation flow chart explaining actuation of the gestalt of this operation.

[Drawing 10] Drawing 10 is drawing showing the example of a display of a menu screen.

[Drawing 11] "smiling face of the character "a dog" which body of cellular phone 1a was held in hold equipment 1b, and drawing 11 downloaded -- " -- an image is drawing explaining the condition of having been displayed on the display 14.

[Drawing 12] "tearful face of the character "a dog" which body of cellular phone 1a was held in hold equipment 1b, and drawing 12 downloaded -- " -- an image is drawing explaining the condition of having been displayed on the display 14.

[Drawing 13] Drawing 13 is the block diagram of the contents server 2 in the gestalt of the 2nd operation.

[Drawing 14] Drawing 14 is the block diagram of body of cellular phone 1a in the gestalt of the 2nd operation.

[Drawing 15] Drawing 15 is a flow chart which shows actuation of the gestalt of the 2nd operation.

[Drawing 16] Drawing 16 is drawing for explaining the menu screen in the gestalt of the 2nd operation.

[Drawing 17] Drawing 17 is the block diagram of the contents server 2 in the gestalt of the 3rd operation.

[Drawing 18] Drawing 18 is drawing for explaining an image and melody data.

[Drawing 19] Drawing 19 is the block diagram of body of cellular phone 1a in the gestalt of the 3rd operation.

[Drawing 20] Drawing 20 is the flow chart of the actuation in the cellular phone 1 in the gestalt of the 3rd operation.

[Drawing 21] Drawing 21 is drawing explaining a display and output state of the cellular phone 1 in the gestalt of the 3rd operation.

[Drawing 22] Drawing 22 is drawing explaining a display and output state of the cellular phone 1 in the gestalt of the 3rd operation.

[Drawing 23] Drawing 23 is drawing explaining a display and output state of the cellular phone 1 in the gestalt of the 3rd operation.

[Description of Notations]

1 Cellular Phone

- 1a The body of a cellular phone
- 1b Hold equipment
- 2 Contents Server
- 3 Gateway Server
- 4 Base Station
- 5 Point-to-Point-Communication Network
- 6 Communication Network (Internet)
- 7 Mobile Communication Network

[Translation done.]

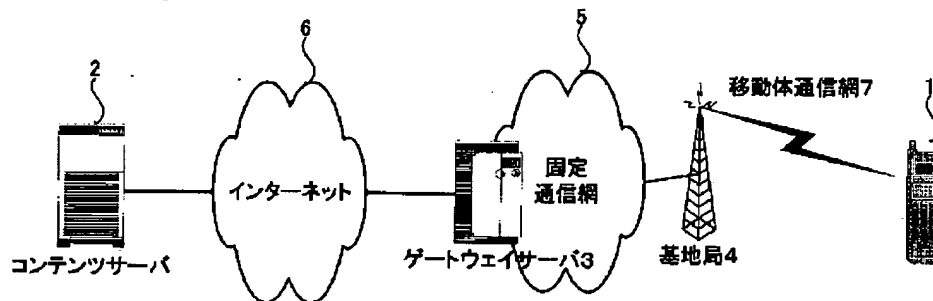
* NOTICES *

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

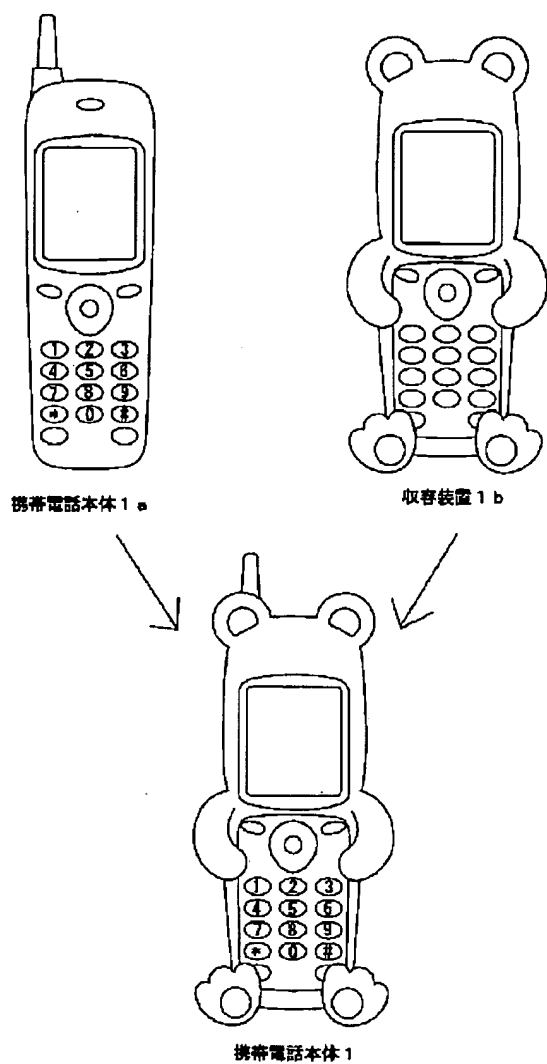
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

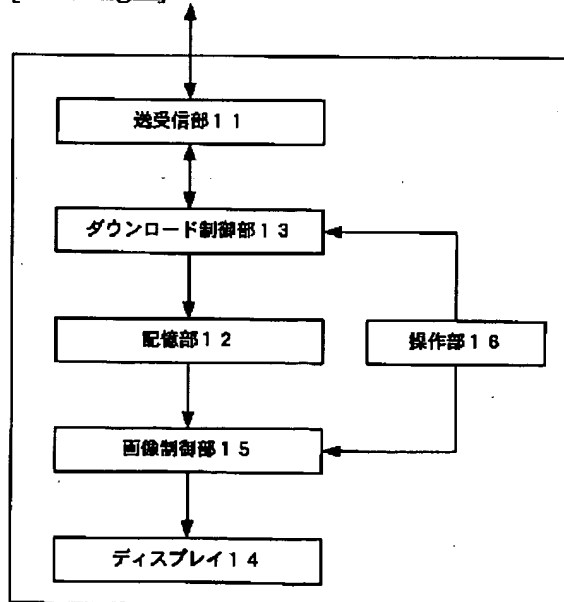
[Drawing 1]



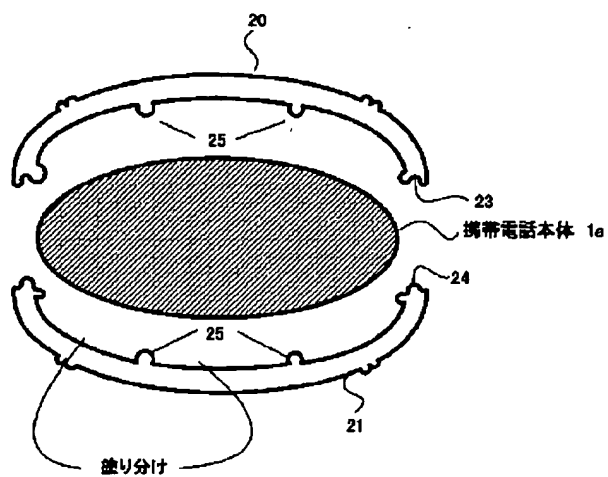
[Drawing 2]



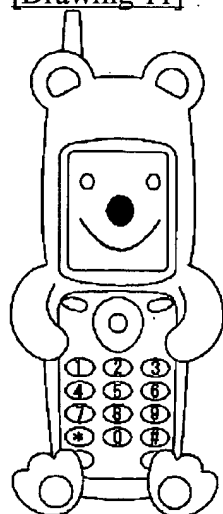
[Drawing 3]



[Drawing 5]



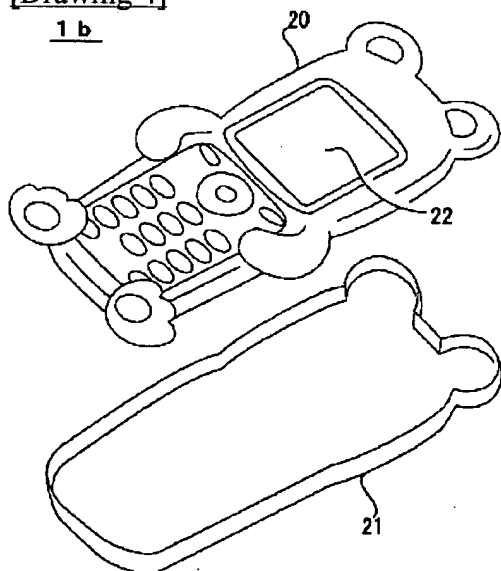
[Drawing 11]



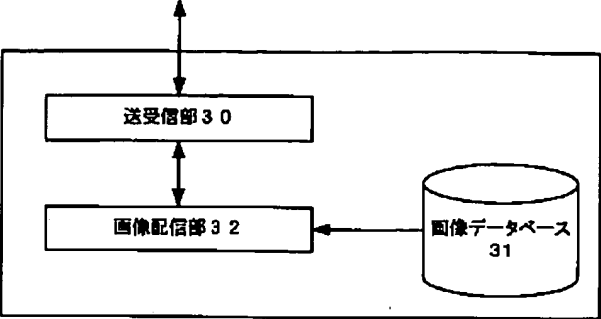
携帯電話本体 1

笑い顔

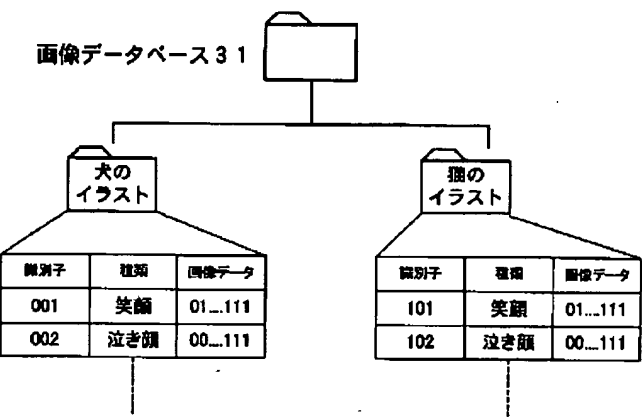
[Drawing 4]

1 b

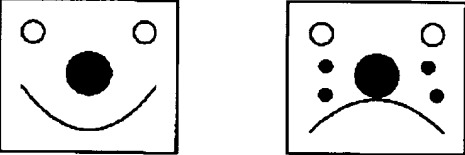
[Drawing 6]



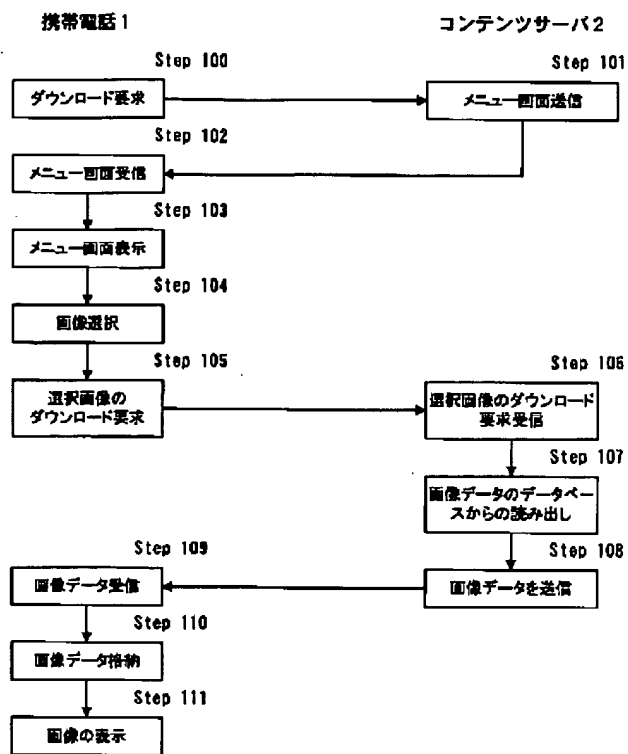
[Drawing 7]



[Drawing 8]



[Drawing 9]



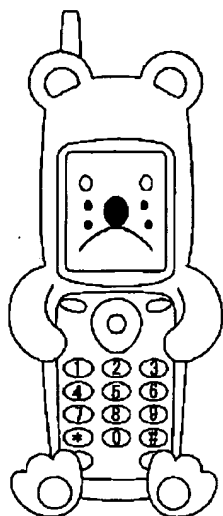
[Drawing 10]

メニュー画面

現在ダウンロード可能な画像の一覧です。
ダウンロードする画像のボックスにチェックをしてください。

キャラクター"犬"	キャラクター"猫"
<input type="checkbox"/> 笑顔	<input type="checkbox"/> 笑顔
<input type="checkbox"/> 泣き顔	<input type="checkbox"/> 泣き顔

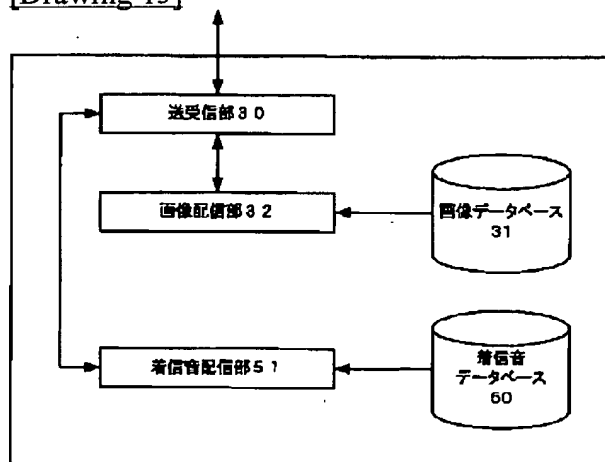
[Drawing 12]



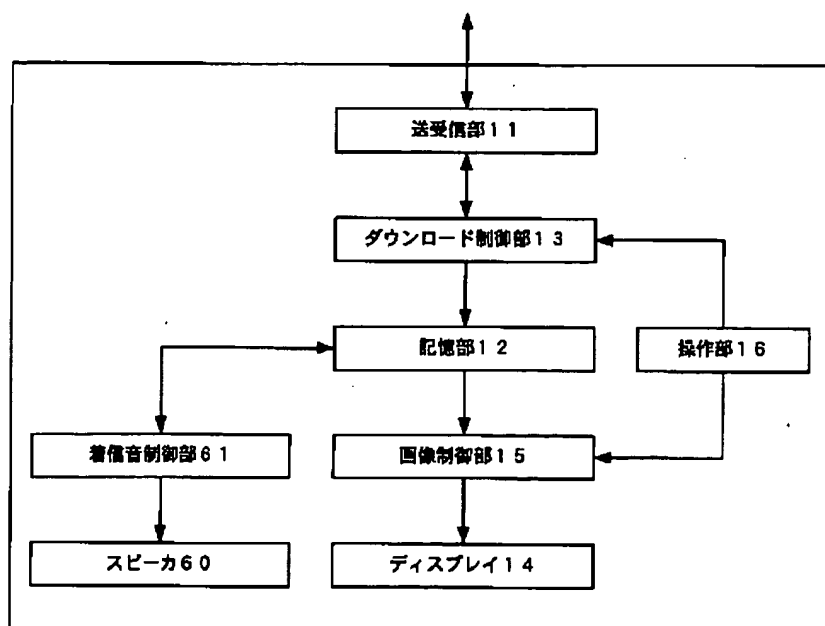
携帯電話本体1

泣き顔

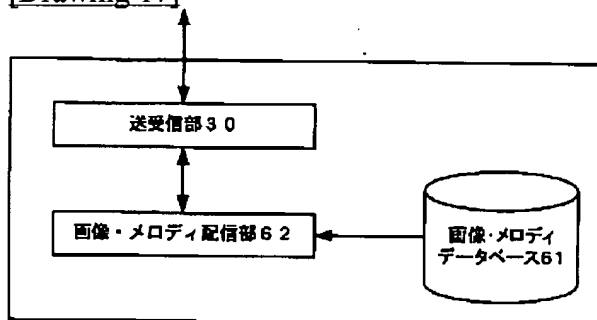
[Drawing 13]



[Drawing 14]



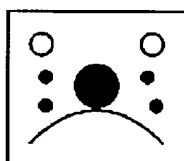
[Drawing 17]



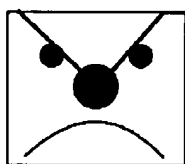
[Drawing 18]



メロディ"ワン、ワン"

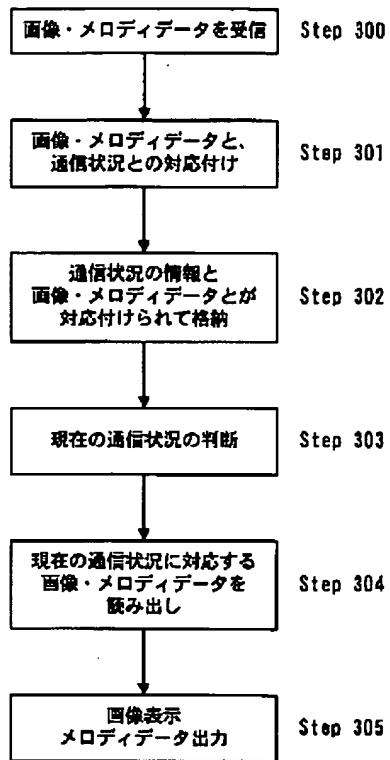


メロディ"キャン、キャン"

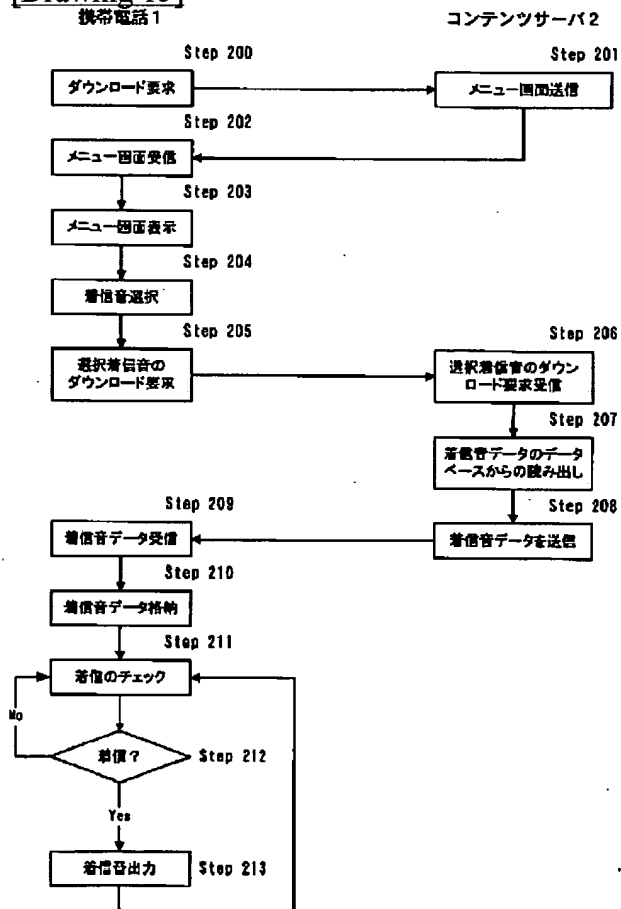


メロディ"ウーッ、ウーッ"

[Drawing 20]



[Drawing 15]



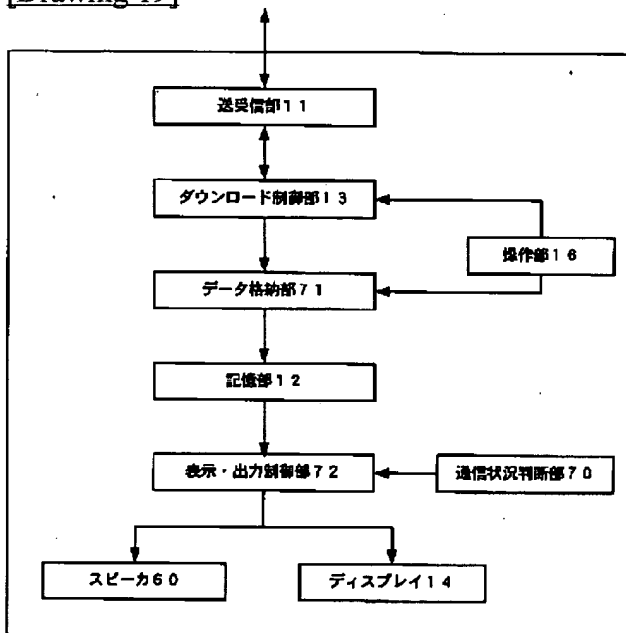
[Drawing 16]

メニュー画面

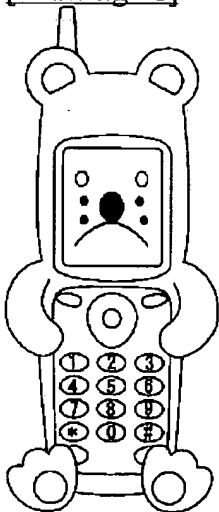
現在ダウンロード可能な着信音の一覧です。
ダウンロードする着信音のボックスにチェックをしてください。

キャラクター"犬" <input type="checkbox"/> 鳴き声	キャラクター"猫" <input type="checkbox"/> 鳴き声
---	---

[Drawing 19]

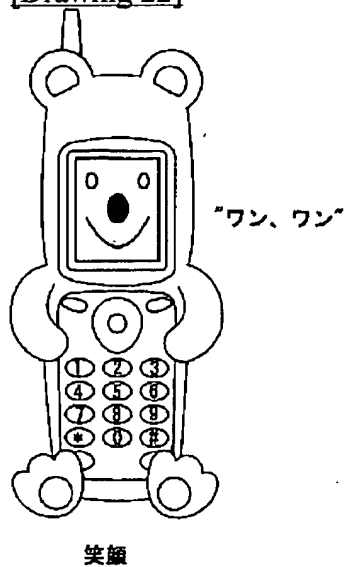


[Drawing 21]

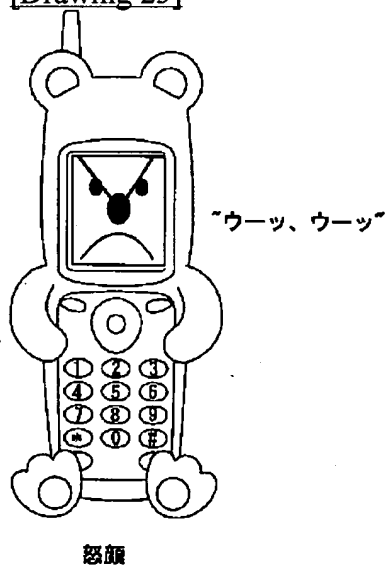


泣き顔

[Drawing 22]



[Drawing 23]



[Translation done.]